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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,907	05/30/2006	Hiroki Nakamaru	8003-1041	6842
466 7590 05/28/2009 YOUNG & THOMPSON			EXAMINER	
209 Madison Street			BLACKWELL, GWENDOLYN	
Suite 500 ALEXANDRI	A VA 22314		ART UNIT	PAPER NUMBER
1111111111111111	, , , , , , , , , , , , , , , , , , ,		1794	
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			05/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/580,907 NAKAMARU ET AL. Office Action Summary Examiner Art Unit GWENDOLYN BLACKWELL 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 May 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.6-14 and 16-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-4,6-14 and 16-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 30 May 2006 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______.

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 20, 2009 has been entered.

Response to Arguments

 Applicant's arguments with respect to claims 1-4, 6-14, and 16-20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (e) prior art under 35 U.S.C. 103(a).

 Claims 1-4, 6-14, and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umino et al. WO 03/042427 in view of United States Patent no. 5,032,236, Saitou et al. Regarding claims 1-4 and 6-12

Umino et al teaches a coating composition for a steel sheet having Zn/Ni galvanizing layer, wherein the coating composition contains the claimed ingredients of metal ions, water soluble organic resin, water dispersible organic resin, glycoluril resin, and acid. The steel sheet can be an electrolytic zinc-coated steel sheet. See Umino et al USPA 2004/0185261 (Abstract; paragraphs 14-30, 34-42; 60-85; Tables 1-8; and Claims)(translation of WO 03/042427). With respect to the limitation of a polymer of a monomer containing a carboxyl and a copolymer of a monomer containing a carboxyl group, the claimed polymer is described in terms of monomer components, as opposed to composition of synthesized polymer, and so the polymers of Umino et al, which have not been demonstrated to be incapable of synthesis from these starting monomers, teach and/or render obvious these materials. Umino et al does not specifically teach that the steel sheet has been blackened prior to coating with the coating composition.

Saitou et al disclose a process that blackens the surface of a steel sheet by electrolyzing a steel sheet in an aqueous solution containing Zn^{2+} and at least one of Fe^{2+} , Co^{2+} , and Ni^{2+} , (column 2. lines 50-67).

Umino et al and Saitou et al disclose analogous inventions related to the treatment of zinc coated steel sheets. It would have been obvious to one skilled in the art the time of invention to utilize the zinc/nickel coated sheet of Saitou et al as the surface treated metal sheet in Umino et

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al in order to have a steel sheet having a distinguished appearance, workability, corrosion resistance, and scratch resistance, (Saitou, column 3, lines 33-40).

Regarding claims 13-14 and 16-20

With regards to the additional limitation that the organic resin permeates minute cracks on the plating surface, it would be expected that the coating layer would inherently fill cracks present on the surface of the coating, absent an objective showing to the contrary. Furthermore, Umino et al teaches heat treatment of the coating which would be expected to result in film expansion to fill cracks.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GWENDOLYN BLACKWELL whose telephone number is 571-272-5772. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GWENDOLYN BLACKWELL/ Primary Examiner, Art Unit 1794